



-(PCT Article 18 and Rules 43 and 44)

A - Page Ala a No file and			
Applicant's or agent's file reference FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, Item 5 below.			
International application No.	international filing date (day/month/year)	(Earliest) Priority Date (day/month/year)	
PCT/JP 03/04550 10/04/2003 12/04/2002			
Applicant			
MATSUSHITA ELECTRIC INDUS	STRIAL CO. LTD		
This international Search Report has be according to Article 18. A copy is being t	en prepared by this international Searching Aut ransmitted to the international Bureau.	horIty and is transmitted to the applicant	
This International Search Report consist It is also accompanied b	s of a total of4 sheets. y a copy of each prior art document cited in this	s report.	
Basis of the report			
 With regard to the language, the language in which it was filed, ur 	e international search was carried out on the ba nless otherwise indicated under this item.	sis of the international application in the	
Authority (Rule 23.1(b)).			
was carried out on the basis of the	he sequence listing:	nternational application, the international search	
	ional application in written form.		
	ternational application in computer readable for	m.	
furnished subsequently t	o this Authority in written form.	•	
	o this Authority in computer readble form.		
International application	bsequently furnished written sequence listing of as filed has been furnished.		
the statement that the inf furnished	iormation recorded in computer readable form i	s identical to the written sequence listing has been	
2. Certain claims were for	und unsearchable (See Box I).		
3. Unity of Invention is lac	•		
4. With regard to the title,	•		
	ubmitted by the applicant.		
the text has been establi	shed by this Authority to read as follows:	<i>:</i>	
		e.	
5 Nation report to the above			
5. With regard to the abstract,			
	ubmitted by the applicant.	the service to Marcilli What are Basel and the	
	shed, according to Rule 38.2(b), by this Authori e date of mailing of this International search rep	ty as it appears in Box III. The applicant may, port, submit comments to this Authority.	
•	olished with the abstract is Figure No.	3	
as suggested by the app	licant.	None of the figures.	
because the applicant fai	iled to suggest a figure.		
because this figure bette	r characterizes the invention.	·	

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) $IPC \quad 7 \qquad G06K$

Documentation searched other than minimum documentation to the extent that such documents are included. In the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, COMPENDEX

Category °	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SHAKUNAGA T ET AL: "Decomposed eigenface for face recognition under various lighting conditions" PROCEEDINGS 2001 IEEE CONFERENCE ON COMPUTER VISION AND PATTERN RECOGNITION. CVPR 2001. KAUAI, HAWAII, DEC. 8 - 14, 2001, PROCEEDINGS OF THE IEEE COMPUTER CONFERENCE ON COMPUTER VISION AND PATTERN RECOGNITION, LOS ALAMITOS, CA, IEEE COMP. SOC, US, vol. 1 OF 2, 8 December 2001 (2001-12-08), pages 864-871, XP010583836 ISBN: 0-7695-1272-0 Sections "3. Decomposed Eigenface", "6.1. Discriminant Functions", "6.4 Recognition using three Features" sec	1-18

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.		
Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the International filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family		
Date of the actual completion of the international search 14 October 2003	Date of mailing of the international search report $21/10/2003$		
Name and malling address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Granger, B		

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International Application No PCT/J 2003/04550

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT			
Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.			
P,X	EP 1 217 574 A (MATSUSHITA ELECTRIC IND CO LTD) 26 June 2002 (2002-06-26)	1,2,4,6, 9,10,12, 14,17,18	
	the whole document	14,17,18	
P,X	KIRP H ET AL: "Face retrieval using 1st- and 2nd-order pca mixture model" PROCEEDINGS 2002 INTERNATIONAL CONFERENCE ON IMAGE PROCESSING. ICIP 2002. ROCHESTER, NY, SEPT. 22 - 25, 2002, INTERNATIONAL	1,2,4,6, 9,10,12, 14,17,18	
•	CONFERENCE ON IMAGE PROCESSING, NEW YORK, NY: IEEE, US, vol. 2 OF 3, 22 September 2002 (2002-09-22), pages		
	605-608, XP010608044 ISBN: 0-7803-7622-6 Section "2. Eigenface and 2nd Order Eigenface Method"		
T	KIM M-S ET AL: "Face recognition using the embedded HMM with second-order block-specific observations" PATTERN RECOGNITION, PERGAMON PRESS INC. ELMSFORD, N.Y, US, vol. 36, no. 11, November 2003 (2003-11), pages 2723-2735, XP004453573	1-18	
	ISSN: 0031-3203 page 2727, left-hand column, paragraph 3 -page 2728, left-hand column, paragraph 2; figures 4-6	*	
A	KOUZANI A Z ET AL: "Multiresolution eigenface-components" TENCON '97. IEEE REGION 10 ANNUAL CONFERENCE. SPEECH AND IMAGE TECHNOLOGIES FOR COMPUTING AND TELECOMMUNICATIONS.,	3,5,7,8, 11,13, 15,16	
	PROCEEDINGS OF IEEE BRISBANE, QLD., AUSTRALIA 2-4 DEC. 1997, NEW YORK, NY, USA, IEEE, US, 2 December 1997 (1997-12-02), pages 353-356, XP010264172 ISBN: 0-7803-4365-4 the whole document		
A	TURK M A ET AL: "Face recognition using eigenfaces" PROCEEDINGS OF THE COMPUTER SOCIETY CONFERENCE ON COMPUTER VISION AND PATTERN RECOGNITION. LAHAINA, MAUI, HAWAII, JUNE 3 - 6, 1991, LOS ALAMITOS, IEEE. COMP. SOC. PRESS, US, 3 June 1991 (1991-06-03), pages 586-591,	1-18	
	XP010023267 ISBN: 0-8186-2148-6 the whole document		
			

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	nuation) DOCUMENTS CONSIDERED TO BE RELEVANT		In the second	
Category °	y ° Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.	
Α	TURK M ET AL: "EIGENFACES FOR RECOGNITION"		1-18	
,	JOURNAL OF COGNITIVE NEUROSCIENCE,	مسامي ي	~ .	
	CAMBRIDGE, MA, US, vol. 3, no. 1, 1991, pages 71-86,			
	XP000490270 the whole document			
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Information patent family members

International Application No PCT/JR /04550

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 1217574 A	26-06-2002	CN 1360266 A EP 1217574 A2 JP 2003208619 A	24-07-2002 26-06-2002 25-07-2003
		US 2002114464 A1	22-08-2002